

WEST Search History

DATE: Monday, May 19, 2003

Set Name Query

side by side

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result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

L3 L2 and cross\$3link

25 L3

L2 L1 and (hyaluronic acid or healon or hyaluronate or hylan)

234 L2

DB=USPT; PLUR=YES; OP=ADJ

L1 ((536/18.7 |536/55 |536/55.1 |536/55.2 |536/55.3 |536/123.1 |536/124
)!CCLS.)

2937 L1

END OF SEARCH HISTORY

(FILE 'HOME' ENTERED AT 09:53:42 ON 19 MAY 2003)

FILE 'APOLLIT, BABS, CAPLUS, CBNB, CEN, CIN, EMA, IFIPAT, JICST-EPLUS,
PASCAL, PLASNEWS, PROMT, RAPRA, SCISEARCH, TEXTILETECH, USPATFULL,
USPAT2, WPIDS, WTEXTILES, AGRICOLA, ALUMINIUM, ANABSTR, AQUIRE,
BIOCOMMERCE, BIOTECHNO, CABA, CAOLD, CEABA-VTB, ...' ENTERED AT 09:54:00
ON 19 MAY 2003

L1 38941 S HYALURONIC ACID
L2 586 S L1 AND CROSS LINK
L3 320 S L2 AND (FORMALDEHYDE OR GLUTARALDEHYDE OR DIVINYL SULFONE O
L4 4 S L3 AND MULTIPLE CROSS-LINKED

4 ANSWER 1 OF 4 IFIPAT COPYRIGHT 2003 IFI
 AN 10147610 IFIPAT;IFIUDB;IFICDB
 TITLE: PROCESS FOR THE PRODUCTION OF **MULTIPLE
 CROSS-LINKED HYALURONIC
 ACID DERIVATIVES**; PREPARING PREEFRENentially
 LINKED CHEMICAL INTERMEDIATES; OBTAIN
HYALURONIC ACID, INCUBATE WITH
GLUTARALDEHYDE, RECOVER REACTION PRODUCT
 INVENTOR(S): Zhao; Xiaobin, Edinburgh, GB
 PATENT ASSIGNEE(S): Vitrolife UK Limited
 AGENT: STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK
 AVENUE, N.W., SUITE 600, WASHINGTON, DC, 20005-3934,
 US

	NUMBER	PK	DATE
PATENT INFORMATION:	US 2002091251	A1	20020711
APPLICATION INFORMATION:	US 2001-920286		20010802

	NUMBER	DATE
PRIORITY APPLN. INFO.:	GB 1999-24127	19990203
FAMILY INFORMATION:	US 2002091251	20020711
DOCUMENT TYPE:	Utility	
	Patent Application - First Publication	
FILE SEGMENT:	CHEMICAL	
	APPLICATION	
NUMBER OF CLAIMS:	23	

AB The present invention relates to a process for the production of
 cross-linked **hyaluronic acid** (HA) derivatives, in
 particular multiple, e.g. double cross-linked **hyaluronic
 acid** derivatives. The invention also provides novel cross-linked
 HA derivatives, products containing them and their uses in medical and
 pharmaceutical and cosmetic applications.
 CLMN 23

L4 ANSWER 2 OF 4 IFIPAT COPYRIGHT 2003 IFI
 AN 10105695 IFIPAT;IFIUDB;IFICDB
 TITLE: PROCESS FOR CROSS-LINKING **HYALURONIC
 ACID** TO POLYMERS; CONTACTING WITH
 CROSSLINKING AGENTS SO AS TO FORM TWO OR MORE
 CHEMICALLY DISTINCT CROSSLINKS BETWEEN
HYALURONIC ACID AND THE POLYMER;
 PRODUCTS WITH MEDICAL APPLICATIONS
 INVENTOR(S): Alexander; Catherine, Gorebridge, GB
 Fraser; Jane, Carluke, GB
 Zhao; Xiaobin, Edinburgh, GB
 PATENT ASSIGNEE(S): Unassigned
 AGENT: STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK
 AVENUE, N.W., SUITE 600, WASHINGTON, DC, 20005-3934,
 US

	NUMBER	PK	DATE
PATENT INFORMATION:	US 2002049281	A1	20020425
APPLICATION INFORMATION:	US 2001-924182		20010802

	NUMBER	DATE
PRIORITY APPLN. INFO.:	GB 1999-26528	19990205
FAMILY INFORMATION:	US 2002049281	20020425
DOCUMENT TYPE:	Utility	
	Patent Application - First Publication	
FILE SEGMENT:	CHEMICAL	

APPLICATION

NUMBER OF CLAIMS:

27

AB The present invention provides a process for the production of **hyaluronic acid** (HA) derivatives cross-linked with another polymer, in particular multiple e.g. double cross-linked **hyaluronic acid** derivatives. The invention also provides novel cross-linked derivatives, products containing them and their uses in cosmetic, medical and pharmaceutical applications.

CLMN 27

L4 ANSWER 3 OF 4 USPATFULL

ACCESSION NUMBER: 2002:172491 USPATFULL

TITLE: Process for the production of **multiple cross-linked hyaluronic acid** derivatives

INVENTOR(S): Zhao, Xiaobin, Edinburgh, UNITED KINGDOM

PATENT ASSIGNEE(S): Vitrolife UK Limited (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002091251	A1	20020711
APPLICATION INFO.:	US 2001-920286	A1	20010802 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 2000-GB321, filed on 3 Feb 2000, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1999-2412	19990203
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK AVENUE, N.W., SUITE 600, WASHINGTON, DC, 20005-3934	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Page(s)	
LINE COUNT:	734	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a process for the production of cross-linked **hyaluronic acid** (HA) derivatives, in particular multiple, e.g. double cross-linked **hyaluronic acid** derivatives. The invention also provides novel cross-linked HA derivatives, products containing them and their uses in medical and pharmaceutical and cosmetic applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 4 USPATFULL

ACCESSION NUMBER: 2002:92755 USPATFULL

TITLE: Process for cross-linking **hyaluronic acid** to polymers

INVENTOR(S): Zhao, Xiaobin, Edinburgh, UNITED KINGDOM
Alexander, Catherine, Gorebridge, UNITED KINGDOM
Fraser, Jane, Carluke, UNITED KINGDOM

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002049281	A1	20020425
APPLICATION INFO.:	US 2001-924182	A1	20010802 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 2000-GB316, filed on 3 Feb 2000, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1999-2652	19990205

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK
AVENUE, N.W., SUITE 600, WASHINGTON, DC, 20005-3934
NUMBER OF CLAIMS: 27
EXEMPLARY CLAIM: 1
LINE COUNT: 943

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a process for the production of
hyaluronic acid (HA) derivatives cross-linked with
another polymer, in particular multiple e.g. double cross-linked
hyaluronic acid derivatives. The invention also
provides novel cross-linked derivatives, products containing them and
their uses in cosmetic, medical and pharmaceutical applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.